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# JOURNAL

OF THE

# AMERICAN GEOGRAPHICAL SOCIETY

OF

NEW YORK.

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VOL. IX.

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1879.

# STATE OF NEW YORK.

No. 40.

# IN SENATE,

APRIL 30, 1878.

## ANNUAL REPORT

OF THE

## AMERICAN GEOGRAPHICAL SOCIETY FOR THE YEAR 1877.

No. 11 WEST 29TH STREET,
NEW YORK, *March* 25, 1878.

Hon. WILLIAM DORSHEIMER,
*President of the Senate of the State of New York:*

SIR—In conformity with the provisions of the act incorporating this Society, I have the honor to transmit herewith the annual report of the American Geographical Society for the year 1877.

Very respectfully yours,

(Signed) CHARLES P. DALY,
*President.*

# OFFICERS AND COUNCILLORS FOR THE YEAR 1877.

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# HONORARY AND CORRESPONDING MEMBERS, AND FELLOWS.

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WILCZEK, Count H., Vienna.

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BEHM, Dr. E., Gotha.
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NEGRI, Christoforo, Hamburgh, Germany.
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PASSMORE, Frank B., C. E., New Zealand.
ISMAIL, Pacha, Governor General of the Soudan.
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ROMERO, Mathias, Mexico.
ROGERS, Rear Admiral John, U. S. Navy.
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SCHLAGINTWEIT-SAKUNLUNSKI, Herm'n von.
SCHUMACHER, Herman A., M. D., Consul-General, German Empire, New York.
SCHUMACHER, John, Altona, Germany.
SCHUYLER, Eugene, St. Petersburg.
SELFRIDGE, Commander T. O., U. S. Navy, Washington, D. C.
SEYMOUR, Horatio, LL. D., Utica, N. Y.
STANLEY, Henry M.
STARRING, Gen. F. A., Paris.
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TAINTOR, Edward G., Shanghai, China.
VAN BENTHUYSEN, Charles, Albany, N. Y.
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WHEELER, Lieut. G. M., U. S. Army, Washington, D. C.
WILLIAMS, S. Wells, LL. D., New Haven, Conn.
WYMAN, Capt. R. H., U. S. Navy, Washington, D. C.
YOUNG, Jess, F. R. G. S., Wisbeach, England.

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## FELLOWS.

Date of election.
1853 Alsop, Joseph W.
1860 Acton, Thomas C.
1868 Appleton, William H.
1869 Auchmuty. Richard Tylden.
1859 Arnoux, William H.
1859 Arnold, David H. (L. F.)
1859 Aymar, William. (L. F.)
1871 Atterbury, Rev. Wm. Wallace, D. D.
1872 Allen, Horatio M.
1873 Albert, Halpern.
1874 Ascher, Adolph.
1874 Adler, Felix, M D.

Date of election.
1874 Adams, Rev. Wm., D. D.
1874 Agnew, John T. (L. F.)
1874 Arnold, Richard.
1874 Allen, Henry Wilder.
1874 Alexander, Junius B.
1874 Alexander, Charles B.
1874 Abbott, James L.
1874 Arthur, Gen. Chester A.
1874 Auferman, August.
1874 Auchincloss, Henry B.
1874 Acker, David D.
1874 Avery, Samuel P.

Date of election.

1874 Amend, Bernhard G.
1874 Agnew, Alexander McL.
1874 Adams, Charles Francis.
1874 Astor, W. W.
1874 Appleton, George S.
1874 Appleton, John A.
1874 Appleton, D. S.
1874 Adams, John P.
1874 Anderson, Henry H.
1874 Anthony, Edward.
1874 Alsop, William.
1874 Amy, Henry.
1874 Andrews, George H.
1875 Anthony, Henry F.
1875 Alexander, Wlliam.
1875 Alexander, J. W.
1875 Amsnick, Gustav.
1875 Allen, Wm. M.
1876 Andrews, Wm. L.
1876 Amory, Copley
1876 Appleton, Nathan.

1852 Bancroft, George. (L. F.)
1852 Barney, Hiram. (L. F.)
1853 Brown, James M.
1853 Butler, Charles.
1856 Baker, Francis. (L. F.)
1856 Berry, Richard.
1856 Brevoort, J. Carson.
1856 Brown, Stewart.
1859 Brown, James. (L. F.)
1859 Boorman, J. M.
1859 Boardman, Andrew.
1859 Bernheimer, Isaac.
1859 Belmont, August. (L. F.)
1859 Barlow, S. L. M.
1860 Benedict, Erastus C.
1861 Butterfield, Gen. Daniel.
1865 Banvard, John.
1865 Bellows, Rev. Henry W.
1868 Banks, David.
1868 Beardslee, Rufus G.
1868 Beckwith, N. M.
1868 Bennett, James Gordon.
1868 Bernheimer, Adolph.
1868 Bernheimer, Simon.
1868 Bill, Edward.
1868 Blake, Charles F.
1868 Brady, John R.
1869 Bailey, Jas. Muhlenberg.
1869 Banyer, Goldsboro.
1869 Bickmore, Prof. A. S.
1869 Bierstadt, Albert.
1869 Bloomfield, William.
1870 Butler, Cyrus.
1870 Brooks, Sidney.
1870 Botta, Prof. Vincenzo.
1870 Body, John E.
1870 Bishop, T. Alston. (L. F.)
1870 Bell, George.
1871 Butler, Benjamin F.
1872 Bryce, James. (L. F.)
1872 Brown, Walston H.
1873 Blood, O. Howard.
1873 Bailey, N. P.

Date of election.

1874 Bishop, D. W. (L. F.)
1874 Bien, Julius.
1874 Booth, Rev. Robert R.
1874 Beecher, Rev. Henry Ward.
1874 Bartlett, Willard.
1874 Birdseye, Lucien.
1874 Bryant, Wm. Cullen.
1874 Bissinger, Philip.
1874 Barney, Newcomb C.
1874 Backus, Henry C.
1874 Ballin, Eugene S.
1874 Baker, James, Jr.
1874 Beardslee, J. B.
1874 Boesé, Charles.
1874 Baldwin, Townsend B.
1874 Bates, Levi M.
1874 Barnes, John S.
1874 Barbour, Thomas.
1874 Bonner, Robert.
1874 Betts, William.
1874 Bonn, William B.
1874 Bjerring, Rev. Nicolas.
1874 Barnard, Horace.
1874 Barnard, F. A. P.
1874 Benjamin, John.
1874 Bell, Isaac.
1874 Butler, Wm. Allen.
1874 Bartow, Morey H.
1874 Barling, Henry A.
1874 Bard, Charles.
1874 Barr, William.
1874 Bacharach, Herman.
1874 Belding, Milo M.
1874 Beach, Wm. A.
1874 Buckley, Rev. Jas. M.
1874 Bookstaver, Henry W.
1874 Brown, Charles S.
1874 Brownson, Lieut. W. H., U. S. N.
1875 Barney, Charles T.
1875 Bancroft, Benjamin F.
1875 Beach, Miles.
1875 Beaman, Charles C., Jr.
1875 Balch, George T.
1875 Bernheimer, J. A.
1875 Belknap, Robert Lenox.
1875 Beckwith, Leonard F.
1875 Benjamin, E. B.
1875 Bull, Charles S., M. D.
1875 Bixby, Lieut. Wm. H., U. S. A.
1875 Brewerton, Gen. Henry, U. S. A.
1875 Beekman, Gerard.
1875 Babcock, Gen. O. E., U. S. A.
1875 Benkard, James.
1875 Brownell, Silas B.
1875 Bergland, Lieut. Eric, U. S. A.
1875 Burgess, William J.
1875 Brown, Vernon H.
1875 Barnes, William.
1875 Barney, A. H.
1875 Bliss, George.
1875 Beste, Henry.
1875 Bredt, Ernest.
1875 Bonner, John.
1875 Buckley, Charles E.
1875 Bernacki, Charles, M.D.

Date of election.

1875 Bent, Captain Silas.
1875 Bigelow, John.
1875 Bedle, Joseph D.
1875 Belknap, Capt. George E., U. S. N.
1875 Bowie, Augustus J., Jr.
1876 Buechner, Augustus.
1876 Bowne, Richard H.
1876 Burnett, Henry L.
1876 Buell, James.
1876 Blunt, George W. (L. F.)
1876 Breese, Jas. Lawrence
1876 Banks, James L., M. D.
1876 Baldwin, Com'r Charles H., U. S. N.
1876 Bodisco, Waldemer de.
1876 Brower, John.
1876 Billings, Frederick.
1876 Bellew, F. H. T.
1877 Booth, George.
1877 Bixby, Robert F.
1877 Börs, Christian.
1877 Briggs, Prof. Charles A.
1877 Beall, J. A.
1877 Blanchard, George R.
1877 Barbour, John M.
1877 Blatchford, Eliphalet W.

1852 Colton, Joseph H. (L. F.)
1855 Conkling, Frederick A. (L. F.)
1855 Cooper, Peter.
1856 Cooley, James E. (L. F.)
1856 Carter, Robert.
1856 Colgate, Charles C.
1856 Cooper, Edward.
1856 Crooks, Ramsay.
1856 Curtis, William E.
1862 Cowdin, Eliot C.
1863 Cary, William F. (L. F.)
1868 Catlin, N. W. Stuyvesant, (L. F.)
1868 Cisco, John J.
1868 Choate, William G.
1868 Chapman, Joseph H.
1869 Cullum, Gen. G. W., U. S. A. (L. F.)
1869 Churchill, Franklin H.
1874 Cruickshank, James.
1870 Conklin, William A.
1872 Corse, Israel.
1872 Conklin, Eugene E.
1872 Crawford, Gen. S. W., U. S. Army.
1872 Clark, E. V.
1872 Cox, Samuel S.
1873 Coster, Charles H.
1874 Connery, T. B.
1874 Cowdrey, N. A.
1874 Curphey, James.
1874 Cushing, Caleb.
1874 Case, Robert L.
1874 Campbell, Allan.
1874 Church, George E.
1874 Chauncey, Henry.
1874 Christern, F. W.
1874 Courtright, Milton.
1874 Cockcroft, Jacob H. V.
1874 Chickering, Charles F.
1874 Comstock, Cornelius.
1874 Constable, James M.

Date of election.

1874 Ceballos, J. M.
1874 Cable, George W.
1874 Carter, Walter S.
1874 Caswell, Wm. H.
1874 Chatfield, Cyrus H.
1874 Crerar, John.
1874 Crocker, David.
1874 Cruikshank, Edwin A.
1874 Crosby, J. Schuyler.
1874 Clerke, Wm. B.
1874 Clark, Lot Curran,
1874 Chauncey, Frederick.
1874 Coates, Isaac T., M. D.
1874 Cochrane, Lieut. H. Clay, U. S. M. C.
1874 Colgate, James B.
1874 Constantine, Andrew J.
1874 Constantine, John.
1874 Corning, Erastus.
1874 Cottenet, Francis.
1874 Cossitt, Frederick H.
1874 Cogswell, Wm. L.
1874 Coutan, Charles E.
1874 Conyngham, Wm. L.
1874 Crosby, Hiram B.
1874 Crocker, George A.
1874 Crocker, Wm. Baylies.
1874 Chickering, George H.
1874 Carter, Oliver S.
1874 Carhart, Thomas F.
1874 Catlin, Julius, Jr.
1874 Cabot, Stephen.
1874 Caylus, Ernest.
1874 Colgate, Robert.
1874 Curren, Robert.
1874 Cowles, Walter S.
1875 Clendenin, J. W.
1875 Cameron, R. W.
1875 Chandler, Prof. C. F.
1875 Cushman, W. F.
1875 Cornwall, N. Ellsworth.
1875 Colgate, Bowles.
1875 Cooper, George C.
1875 Champlin, John D., Jr.
1875 Cassebeer, Henry A., Jr.
1875 Clark, A. Hyatt.
1875 Chalmers, George.
1875 Childs, Calvin G.
1875 Clarke, W. W.
1875 Cone, James B.
1875 Cameron, Prof. J. G. M.
1875 Chittenden, S. B., Jr.
1875 Cannon, S. Townsend.
1876 Clarke, W. H.
1876 Cullum, Mrs. George W. (L. F.)
1876 Constable, Major A. G.
1876 Church, John A.
1876 Cornell, John B.
1876 Curtis, Benjamin L.
1876 Curtis, Benjamin R.
1877 Cromwell, Charles T.
1877 Crosby, F. L.

1855 Daly, Chief-Justice Charles P.
1855 Dunshee, Prof. Henry W.
1856 Duncan, Wm. Butler.

Date of election.
1856 Douglass, Andrew E.
1856 Dodge, Wm. E.
1856 Dodge, Wm. E., Jr.
1856 Detmold, William, M. D.
1859 Dickerson, E. N.
1864 Detmold, Christian E.
1866 Darling, Wm. A.
1868 Dwight, Prof. Theo. W.
1868 Duyckinck, Evart A.
1868 Du Chaillu, Paul B.
1868 Dennis, Charles. (L. F.)
1868 Davies, Henry E.
1870 Dash, John B.
1870 Davis, Alexander J.
1870 Drowne, Henry F.
1870 Dinsmore, William B.
1871 Daly, Joseph F.
1873 De Peyster, Frederick. (L. F.)
1873 Delano, Franklin H.
1873 Dwight, James F.
1874 De Peyster, Gen. J. Watts. (L. F.)
1874 Diefendorf, Menzo.
1874 Davis, Noah.
1874 Dillon, Romaine. (L. F.)
1874 Dutilh, E.
1874 Downer, Samuel.
1874 Decker, Charles A.
1874 Delafield, M. L.
1874 Dix, General John A.
1874 Dana, Charles A.
1874 Daly, Augustin.
1874 Draper, Frank E.
1874 Denny, Thomas.
1874 Devlin, Jeremiah.
1874 Davidson, Stratford P.
1874 Donohue, Charles.
1874 Decker, John J.
1874 Del Monte, Leonardo.
1874 Deyo, R. E.
1874 Du Bois, Wm. A.
1874 Dowd, William.
1874 De Castro, Diego.
1874 Delmonico, L.
1874 Davis, Samuel D.
1874 Davis, John G.
1874 Davis, John H.
1874 Dalrymple, Alexander.
1874 Driggs, Marshall S.
1874 Duke, John H.
1874 Dunscomb, Richard T.
1874 Dun, R. G.
1874 Defendorf, Wilson.
1874 Dane, Major H. C.
1875 Darrow, William.
1875 Davies, Julien T.
1875 Du Bois, Eugene.
1875 Donnelly, John J.
1875 Daniel, Edwin M.
1875 Dodd, Josiah F.
1875 Davison, Charles A.
1875 Dodge, Charles C.
1875 De Peyster, Frederic J.
1875 Delafield, Lewis L.
1875 Dommerick, L. F.
1875 Dudley, Henry.

Date of election,
1875 De Camp, Wm. Scott.
1876 Drake, Simeon I.
1876 Dawson, A. H. H.
1876 Davis, Admiral C. H., U. S. N.
1876 Davis, Gilbert F.
1876 Day, Lieut. Murray S., U. S. N.
1876 Drexel, Joseph W.
1876 Dawson, B. F., M. D.
1877 Day, Henry M.
1877 Drennan, Prof. M. J.
1877 Davis, Joseph Beale. (L. F.)
1877 Dorsheimer, William.

1853 Eyre, Henry S. P.
1859 Evarts, William M.
1864 Evans, Walton W.
1868 Emmet, Thomas Addis, M. D.
1872 Edwards, Jonathan.
1873 Ellinger, Moritz.
1874 Ernst, C. W.
1874 Endicott, Francis.
1874 Eaton, Dorman B.
1874 Eaton, John.
1874 Eidlitz, Marc.
1874 Eaton, D. Cady.
1874 Ewen, John, Jr.
1874 Eaton, Sherburne B.
1874 Egleston, Henry P.
1875 Eldridge, Titus B.
1875 Esterbrook, Richard, Jr.
1875 Ellis, John W.
1875 Elliott, John
1875 Eimer, Charles,
1875 Ely, Richard S.
1875 Eads, Captain James B., C. E.
1876 Ellers, George Howard.
1877 Elderkin, John.

1854 Field, Cyrus W. (L. F.)
1857 Fish, Hamilton.
1856 Field, David Dudley.
1856 Field, B. H. (L. F.)
1856 Fernbach, Henry.
1859 Fogg, Wm. H. (L. F.)
1860 Field, Rev. H. M.
1864 Faile, Thomas H.
1868 Frohwein, Theobald.
1869 Furniss, William.
1869 Forsyth, Rev. John.
1869 Field, Dudley.
1871 Fliess, Wm. M.
1873 Freedman, John J.
1873 Fithian, Freeman J.
1874 Farragut, Loyall.
1874 Foshay, James W.
1874 Fabbri, Egisto P.
1874 Fargo, William G.
1874 Fisk, Harvey.
1874 Foster, J. P. Girard.
1874 Fellows, John P.
1874 Ferry, George J.
1874 Foulke, Joseph.
1874 Francklyn, C. G.
1874 Fleet, Oliver S.
1874 Fatman, Lewis.

Date of election.

1874 Fabbri, Ernesto G.
1874 Foster, Wm R.
1874 Forman, Alexander.
1874 Fox, Baldwin N.
1874 Frothingham, Rev. O. B.
1874 Fougera, Edmund C.
1874 Frame, Charles P.
1874 Fox, Austen G.
1875 Foulke, Thomas.
1875 Faile, Charles V.
1875 Fargo, James C.
1875 Fuller, Charles D.
1875 Farquhar, Col. Francis A., U. S. A.
1875 Froebel, Prof. Charles.
1875 Fay, Richard S.
1875 Forster, Robert.
1875 Fraser, Edward A.
1875 Ford, James B.
1875 Foote, Emerson.
1875 Fay, A. Goodrich.
1875 Folsom, George W.
1876 Fisk, Gen. Clinton B.
1877 Fiske, Andrew.
1877 Flagg, Wm. J.
1877 Ferris, L. Murray, Jr.

1856 Greenwood, Isaac J.
1856 Guernsey, Egbert, M. D.
1857 Greene, John W., M. D. (L. F.)
1859 Griswold, George. (L. F.)
1860 Graham, James L. (L. F.)
1868 Gambrill, C. D.
1868 Gebhard, Wm. H. (L. F.)
1868 Gerry, Elbridge. (L. F.)
1868 Goldsmith, Jacob.
1868 Green, Andrew H.
1868 Greene, Gen. G. S.
1869 Gilbert, Clinton.
1870 Graham, Gen. C. K.
1871 Gilman, Wm. C.
1872 Gerard, James W.
1872 Godon, Rear Admiral S.W., U. S. N.
1872 Grinnell, R. M.
1873 Gillmore, Gen. Q. A., U. S. A.
1873 Gedney, Frederick G.
1873 Glaubensklee, Theo. G.
1874 Greenebaum, David S.
1874 Gardner, Hugh.
1874 Green, John.
1874 Gunther, Wm. Henry.
1874 Gunther, F. F.
1874 Garland, John R.
1874 Gitterman, Henry.
1874 Gilbert, Fred. E.
1874 Gibbs, Theodore K.
1874 Gleason, Wesley.
1874 Gottsberger, Wm. S.
1874 Goodsell, James H.
1874 Gomez, Raphael M.
1874 Gray, Horace.
1874 Galpen, Horace.
1874 Gabb, Wm. M.
1875 Grosvenor, James B.
1875 Greene, Lieut. F. V., U. S. A.
1875 Gregory, Capt. James F., U. S. A.

Date of election.

1875 Gordon, Robert.
1875 Germond, Wellington.
1875 Gross, Michael C.
1875 Greene, G. S. Jr., C. E.
1875 Garrison, Cornelius K.
1875 Gibson, James.
1875 Goepp, Charles.
1876 Gautier, Dudley G.
1876 Gerson, Julius.
1877 Green, Lieut. Com. F. M., U. S. N.
1877 Gaylord, Augustus.
1877 Guleke, H. F., M. D.

1856 Hewitt, Abram S.
1856 Hunt, Wilson G.
1856 Herring, Silas C.
1858 Holton, David P., M. D. (L. F.)
1859 Henderson, John C.
1859 Havemeyer, John C. (L. F.)
1864 Hammond, Henry B.
1868 Huntington, Daniel.
1868 Hurlbert, Wm. H.
1868 Hoyt, David.
1868 Hoppin, Wm. Jones.
1868 Hoguet, Robert J.
1868 Hall, Elial F.
1868 Harris, Townsend. (L. F.)
1868 Hartt, Prof. Ch. Fred.
1868 Hayes, Isaac I., M. D.
1868 Hadden, John A. (L. F.)
1868 Hallock, Mrs. Frances.
1869 Halsted, Wm. M.
1869 Hutchins, Waldo.
1870 Hawkes, Prof. W. Wright.
1870 Havens, Charles G.
1870 Harrison, Prof. Thomas F.
1871 Hamilton, Alexander, Jr.
1871 Hand, Clifford A.
1872 Hoffman, Wm. B.
1872 Hamersley, John W. (L. F.)
1872 Hawkins, Dexter A.
1872 Holbrook, Levi.
1873 Havemeyer, Theo. A.
1874 Hamersley, A. Gordon. (L. F.)
1874 Hamersley, Louis C. (L. F.)
1874 Hancock, Gen. Winfield S., U. S. A.
1874 Hay, John.
1874 Haldeman, S. S.
1874 Hitchcock, Rev. Roswell D.
1874 Havemeyer, Hector C.
1874 Hoguet, Henry L.
1874 Hoyt, Oliver.
1874 Hurlbert, Henry A. (L. F.)
1874 Hutton, Benjamin H.
1874 Haydock, George G.
1874 Haines, John P.
1874 Hinton, John H., M. D.
1874 Hendricks, M. M.
1874 Hawk, Samuel.
1874 Hallgarten, Adolphus.
1874 Havemeyer, James.
1874 Holbrook, E. F.
1874 Hoe, Richard M.
1874 Harbeck, John H.
1874 Hascall, Wm. S.

Date of election.

1874 Harper, Nathan.
1874 Hunter, John W.
1874 Hunter, Charles F.
1874 Hendricks, Edmund.
1874 Hendricks, Joshua.
1874 Hawes, James W.
1874 Hampton, Elwood.
1874 Hatch, Rufus.
1874 Huntington, C. P.
1874 Hunter, Lieut. Edward.
1874 Hoyt, Harlow M.
1874 Haight, Charles C.
1875 Hubbard, Prof. O. P.
1875 Hensel, M.
1875 Howard, Thomas T., Jr.
1875 Hall, Rev. Randall C.
1875 Hammond, Wm. A., M. D.
1875 Houston, Col. D. C., U. S. A.
1875 Heuer, Capt. Wm. H., U. S. A.
1875 Hoxie, Lieut. Richard L., U. S. A.
1875 Howell, Major Charles W., U. S. A.
1875 Hoaldey, John C.
1875 Hughes, Wm. H. T.
1875 Hoppenstedt, G. L.
1875 Heins, Wm. F.
1875 Herpich, Charles A.
1875 Hodgskin, James B.
1875 Hanemann, John F.
1875 Howes, Leander T.
1875 Howland, Meredith.
1875 Hyde, Henry B.
1875 Harper, P. J. A.
1875 Hazen, Gen. W. B., U. S. A.
1875 Harris, Siegmund.
1875 Hun, Leonard G.
1876 Heminway, Albert G.
1876 Holt, Henry.
1876 Hallock, Henry W.
1876 Halsted, Major Geo. B.
1876 Higgins, A. Foster.
1876 Hoare, W. Robert.
1876 Holman, Frank E.
1876 Hill, Frank A.
1876 Hyde, Samuel N.
1876 Hoes, Wm. M.
1876 Holden, Daniel J.
1876 Hatfield, J. B. T.
1877 Houghton, Prof. Walter R.

1859 Ireland, John B.
1874 Isaacs, Isaac S.
1874 Iselin, Wm. E.
1874 Ives, Fred'k E.
1874 Iselin, Adrian, Jr.
1875 Ingraham, David P.

1852 Jay, John. (L. F.)
1852 Jones, John D. (L. F.)
1868 Johnson, Henry W.
1868 Johnson, Hezron A.
1868 Joy, Prof. Charles A.
1868 Jacob, Ephraim A.
1870 James, Fred'k P.
1871 Jones, Walter R. T.
1873 Jackson, James, Jr.

Date of election.

1874 Judson, Wm. D.
1874 Janssen, Gerhard.
1874 Jesup, M. K.
1874 Jaffray, Edward S.
1874 Jenkins, Wm. L.
1874 James, D. Willis.
1874 Jameson Joseph A.
1874 Jordan, Conrad N.
1874 Jones, George.
1874 Jaffray, Robert.
1875 Jones, Ed. Renshaw.
1876 Johnston, James W.
1876 Johnson, Rossiter.
1876 Jones, John M.
1877 Jones, J. Weyman.

1852 Kingsland, A C.
1854 Kennedy, Robert Lenox.
1868 Kirkland, Charles P.
1869 Kelly, Eugene.
1870 Kane, J. Grenville.
1872 Kendrick, Col. H. L., U. S. A.
1872 Klamroth, Albert.
1873 Kennan, George.
1874 King, Edward.
1874 Kearney, Joseph R.
1874 Kunhardt, Henry R.
1874 Kingsland, Wm. M.
1874 Kidder, Henry P.
1874 Kalbfleisch, Charles H.
1874 Knoedler, Julius.
1874 Keck, Thomas.
1874 Kemp, Wm.
1874 Keese, Samuel T.
1874 Kaufman, Samuel.
1874 Kayser, Julius.
1874 Kitching, Robert N.
1874 Knower, John.
1874 Kemp, John H.
1874 King, David, Jr.
1874 King, Lewis.
1875 Knapp, Herman, M. D.
1875 Kiernan, Lawrence D.
1876 Kobbé, Herman.
1876 Knauth, Percival.
1876 Koonz, P. J., M. D.
1876 Kent, Andrew W.
1877 King, Clarence.
1877 Kane, Gen. Thomas L.
1877 Kiddoo, Gen. J. B.

1852 Livingston, Cambridge. (L. F.)
1856 Lanier, J. F. D.
1857 Low, A. A.
1859 Lenox, James.
1859 Lathers, Richard. (L. F.)
1862 Lambert, E. W., M. D.
1868 Leslie, Frank.
1868 Lawrence, Abraham R.
1868 Lane, Smith E.
1869 Lawrence, John S. (L. F.)
1870 Loew, Fred'k W.
1870 Lyman, Edward H. R.
1871 Letson, Robert S.
1871 Larremore, Richard L.

Date of election.
1871 Lee, Ambrose.
1872 Libbey, Wm. (L. F.)
1873 Lydig, David.
1873 Latting, John J.
1874 Lathrop, F. S. (L. F.)
1874 Lauterbach, Edward.
1874 Lyall, John H.
1874 Leary, Arthur.
1874 Livingston, Robert J. (L. F.)
1874 Littell, Eugene
1874 Langdon, Walter. (L. F.)
1874 Lorillard, Peter.
1874 Lord, George W. T.
1874 Lord, G. De Forest.
1874 Lorillard, George L.
1874 Longstreet, Charles A.
1874 Leavenworth, E. W.
1874 Lockwood, B.
1874 Livingston, John A.
1874 Livingston, Robert E.
1874 Littlejohn, James.
1874 Lawton, Walter E.
1874 Lawrence, Jos. B.
1874 Leggett, Francis W.
1874 Le Comte, Joseph.
1874 Lederle, Joseph.
1874 Lewis, Walter A.
1874 Lane, George W.
1874 Lawrence, Samuel B.
1874 Lawrence, Alexander C.
1874 Lawrence, Effingham N.
1874 Leuthner, Frederick.
1874 Lesher, Stephen R.
1875 Luff, George.
1875 Low, Seth.
1875 Lawrence, George N.
1875 Ludlow, Major Wm., U. S. A.
1875 Lowrey, James P.
1875 Lancey, Robert C.
1875 Lienau, Louis A.
1875 Luling, Charles.
1875 Low, Josiah O.
1875 Little, James.
1876 Lamborn, Robert H.
1876 Low, A. Augustus.
1876 Lindau, Leopold.
1877 Lockwood, Le Grand.
1877 Landesman, John.
1877 Lindley, John.
1877 Latrobe, John H. B.

1852 Myers, Col. T. Bailey.
1853 Moore, George H. (L. F.)
1856 Morgan, E. D.
1856 Monroe, Ebenezer.
1856 Manners, David S.
1859 McMullen, John.
1859 Morrell, Wm. H. (L. F.)
1859 Moore, Frank. (L. F.)
1863 Marshall, Charles H.
1863 May, Lewis.
1863 Moore, W. H. H. (L. F.)
1864 Morton, Levi P.
1865 Morgan, Wm. D.
1866 Morris, Robert R.

Date of election.
1868 Murphy, Thomas.
1868 Murphy, Henry C.
1868 Morrison, Henry.
1868 Moreau, John B.
1868 Montgomery, A. G., Jr.
1868 Mitchell, Grove P.
1868 Miller, Edmund H.
1868 Martin, Isaac P.
1868 Marquand, Henry G.
1868 Marsh, Luther R.
1868 MacKellar, Wm.
1868 McLean, James M.
1868 McClure, George.
1869 Mount, Richard E. (L. F.)
1869 Moore, Henderson.
1870 Morris, Harry M.
1870 Marbury, Francis F.
1870 Myers, Alfred G.
1870 Myer, Gen. A. J., U. S. A. (L. F.)
1870 Murray, D. Colden.
1870 Miles, Edward D.
1871 Maclay, Robert.
1872 Meyer, F. William.
1872 Matthews, Edward. (L. F.)
1872 Marié, Peter. (L. F.)
1872 Meeker, H. G.
1873 Moore, C. B.
1874 Morris, Henry L.
1874 Mailler, W. H.
1874 Macy, Wm. H.
1874 Marble, Manton.
1874 McAlpine, Wm. J., C.E.
1874 Myers, John K.
1874 Morrison, Edward.
1874 Morgan, W. F.
1874 Menken, J. Stanwood.
1874 Montgomery, Thos. H.
1874 Miller, Philip S.
1874 McElligott, Henry R.
1874 Mott, Alexander B., M. D.
1874 Moir, James.
1874 Morgan, J. Pierpont.
1874 Maclay, Isaac W.
1874 Myers, John K., Jr.
1874 Martin, John M.
1874 Marks, Joseph H.
1874 McAlpin, David H.
1874 Merrall, Wm. J.
1874 McMahon, Gen. M. T.
1874 Moulton, Clarence F.
1874 McCurdy, Robert H.
1874 Miller, Geo. Macculloch.
1875 Martin, George C.
1875 Marshall, F. Pelham.
1875 Mitchell, Edward.
1875 Macy, Arthur.
1875 Morgan, Rev. John B., D. D
1875 McFarland, Major Walter, U. S. A.
1875 Marcus, Arnold.
1875 Meyer, Theo. F. H.
1875 Mott, Henry A., Jr.
1875 Michler, Gen. Nathaniel, U. S. A.
1875 Motley, James M.
1875 Meeker, Wm. B.
1875 Monheimer, Joseph A.

Date of election.

1875 Magoun, George C.
1875 Montague, Col. G. L.
1875 Magnus, Carl.
1875 Maclay, Moses B.
1875 Marsland, George.
1875 Merritt, M. F.
1875 Martin, Bradley.
1875 Meyer, L. H.
1875 McLanahan, Geo. William.
1875 Mass, F. M.
1876 Mitchell, W. Howard.
1876 Miehling, Charles.
1876 Mitchell, Edwin P.
1876 Mattson, Morris, M. D.
1877 Miller, J. L.
1877 Morton, Wm. J., M. D.
1877 Matsell, George W.

1856 Niblo, Wm.
1859 Norrie, Adam. (L. F.)
1870 Neilson, William H.
1873 Neilson, Frederic.
1874 Nourse, Prof. J. E.
1874 Newell, John.
1874 Neergard, Wm.
1874 Norwood, Andrew G.
1874 Niles, William W.
1874 Norris, George.
1874 Nones, Alexander.
1874 Newcombe, Isaac B.
1875 Nesmith, R. D., M. D.
1875 Newton, Gen. John, U. S. A.
1875 Northrop, A. L.
1875 Newton, Isaac.
1876 Niles, Marston.
1876 Nott, J. V. Henry.

1868 Ogden, Wm. B.
1868 Ogden, Alfred.
1869 O'Conor, Charles.
1874 Ottendorfer, Oswald.
1874 Osgood, Franklin.
1874 Orton, William.
1874 Olyphant, Robert M.
1874 Olney, Peter B.
1874 Owen, Edward H.
1874 Oakley, E. Benedict.
1874 Owen, Edward L.
1874 Owen, Frederick N.
1875 Otterbourg, Marcus.
1875 Ottiwell, John D.
1875 O'Connor, Thomas H.
1875 Opdyke, William S.
1876 Owen, Wm. H.
1876 Olmsted, Fred'k Law.
1876 Olmstead, Dwight H.
1877 O'Gorman, Richard.
1877 Ogden, Isaac C., Jr.

1852 Prime, Frederick. (L. F.)
1852 Poor, Henry V. (L. F.)
1852 Pierrepont, Henry E. (L. F.)
1855 Pierrepont, Edwards.
1857 Pyne, Percy R.
1859 Purser, Geo. H.

Date of election.

1859 Prime, Fred'k E. (L. F.)
1860 Phelps, Royal. (L. F.)
1862 Phillips, Geo. W.
1868 Powers, Wm. P.
1868 Pfeiffer, Carl.
1868 Paulison, John P.
1868 Parton, James.
1869 Pruyn, John V. L., LL. D.
1870 Putzel, Mayer.
1871 Potter, Howard.
1871 Peabody, Charles A.
1872 Parish, Henry.
1873 Plum, Elias.
1874 Phelps, Charles H.
1874 Parker, Willard, M. D.
1874 Peake, Wm. I.
1874 Peckham, Walton H.
1874 Peabody, Arthur J.
1874 Pell, Robert L.
1874 Penfold, Wm. Hall.
1874 Phelps, I. N.
1874 Phoenix, S. Whitney. (L. F.)
1874 Potter, Orlando B.
1874 Pondit, John.
1874 Popham, Wm. H.
1874 Pancoast, George.
1874 Paton, John.
1874 Parsons, George W.
1874 Paris, Sherman.
1874 Pastor, Henry.
1874 Perry, Oliver H.
1874 Pratt, Daniel R.
1874 Preble, John O.
1874 Porter, John K.
1874 Palmer, James W., Jr.
1874 Packer, Elisha A.
1874 Powers, George J.
1874 Pellew, Henry E.
1874 Prichard, Wm. M.
1875 Pierrepont, Henry E., Jr.
1875 Phillips, Capt. Charles B., U. S. A.
1875 Parke, Gen. John G., U. S. A.
1875 Prentice, W. P.
1875 Parish, Daniel, Jr.
1875 Pope, General John, U. S. A.
1875 Pohlman, Wm.
1875 Pfund, Anton.
1875 Poppenhusen, Adolph.
1875 Peipers, Hugo.
1875 Porter, Gen. Horace.
1875 Pullman, George M.
1875 Pumpelly. Prof. Raphael.
1875 Putnam, Prof. F. W.
1876 Perkins, George W.
1876 Parsons, Levi.
1876 Peet, William E.
1876 Plum, James R.
1876 Palmer, Gen. W. J.
1877 Peaslee, Edmund R.
1877 Prime, Rev. Wendell, D. D.

1874 Quintard, Edward A.
1875 Quinn, Lieut. Jas. B., U. S. A.

1854 Ruggles, Samuel B.

Date of election.

1854 Rutherfurd, L. M.
1856 Randolph, Anson, D. F.
1856 Remsen, William.
1856 Riker, John H.
1859 Rapallo, Charles A.
1859 Reckendorfer, Joseph. (L. F.)
1861 Rogers, C. B. (L. F.)
1868 Raven, Anton A.
1868 Rhinelander, Wm. C.
1868 Roberts, Marshall O.
1868 Rose, Cornelius.
1870 Rutherfurd, John A.
1872 Robbins, Chandler. (L. F.)
1872 Roelker, Bernard.
1873 Reed, Mrs. Sylvanus.
1873 Reinhart, B. F. (L. F.)
1873 Raynolds, C. T.
1874 Robeson, George M.
1874 Reid, Whitelaw.
1874 Rives, Francis R.
1874 Richardson, Wm. A.
1874 Rollins, Edward A.
1874 Richard, Auguste.
1874 Ruggles, Philo T.
1874 Richards, Agustus L.
1874 Rogers, H. Livingston.
1874 Riley, Charles V.
1874 Riker, Wm. J.
1874 Rütten, August
1874 Requa, James M.
1874 Reynes, Jayme.
1874 Renauld, Peter A. H.
1874 Richard, Charles B.
1874 Rhoades, John H.
1874 Ramsay, Charles G.
1874 Rathbone, Aaron H.
1874 Ransom, F. A.
1874 Russell, Archibald D.
1874 Rhoades, Lyman.
1875 Roosevelt, Clinton.
1875 Robinson, Henry E.
1875 Rives, G. L.
1875 Rossell, Lieut. Wm. T., U. S. A.
1875 Robbins, H. W., Jr.
1875 Roberts, Nathan B.
1875 Read, J. Meredith.
1875 Ranft, Richard.
1875 Raht, Edward E.
1875 Rose, Charles.
1875 Rosenfeld, Isaac.
1876 Ross, Wm. B.
1876 Rodriquez, J. C.
1877 Rose, Theodore.
1877 Rice, A. Thorndike.
1877 Roome, Wm. P.

1853 Smith, James O., M. D.
1854 Sewell, Henry F.
1855 Stuart, Robert L.
1856 Stebbins, Henry G.
1856 Spofford, Paul N.
1856 Schermerhorn, Wm. C.
1856 Sherman, W. Watts.
1859 Schell, Augustus. (L. F.)
1859 Schultz, John H. (L. F.)

Date of election.

1860 Stuart, Alexander.
1860 Stout, Francis A. (L. F.)
1861 Suckley, George, M. D, (L. F.)
1868 Sanger, A. L.
1868 Spencer, Charles S.
1868 Seward, Clarence A.
1868 Shea, George.
1868 Smales, Holbert.
1869 Savage, John. (L. F.)
1869 Strebeigh, Robert M.
1869 Schmidt, Oscar E.
1870 Schell, Richard, (L. F.)
1870 Sherwood, John.
1870 Sistare, George K.
1870 Stoughton, Edwin W.
1870 Schafer, Samuel M.
1870 Schafer, Simon.
1870 Seligman, Joseph.
1870 Seligman, James.
1870 Seligman, Jesse.
1870 Stoughton, Charles B.
1871 Shaler, Gen. Alexander.
1871 Swan, William H.
1872 Stern, Myer.
1872 Stengel, Prof. Frederick.
1872 Steiger, E.
1872 Simpson, Gen. Jas. H., U. S. A.
1872 Stuyvesant, Rutherfurd. (L. F.)
1873 Smith, James M.
1873 Slevin, Thomas.
1873 Sturgis, Frederick.
1873 Spencer, James C.
1873 Strong, Charles E.
1873 Scott, Julian. (L. F.)
1873 Southworth, Alvan S. (L. F.)
1873 Sturgis, Frank K.
1874 Stuart, W. Whiteright.
1874 Stone, Henry.
1874 Sands, Harry M.
1874 Siegman, Michael.
1874 Spingarn, Siegmund.
1874 Steinway, William.
1874 Storrs, Charles. (L. F.)
1874 Sands, Philip J.
1874 Smith, Daniel Drake.
1874 Squires, Robert.
1874 Sloan, Samuel.
1874 Schermerhorn, F. Augustus.
1874 Stuyvesant, Robert R.
1874 Scott, Col. Henry L.
1874 Scribner, John Blair.
1874 Scudder, Henry J.
1874 Stuart, Joseph.
1874 Sigel, Gen. Frank.
1874 Swarr, David M.
1874 Stokes, James.
1874 Strong, W. L.
1874 Sturgis, Appleton.
1874 Stewart, D. Jackson.
1874 Stevens, Alexander Henry,
1874 Sherman, Benjamin B.
1874 Shethar, Samuel.
1874 Sheafe, J. F.
1874 Schieffelin, Samuel B.
1874 Scott, Thomas A.

Date of election.

1874 Sutherland, Josiah.
1874 Stiger, Wm. E.
1874 Stillwell, Benj. M.
1874 Sawyer, Warren.
1874 Sands, Andrew H.
1874 Sanford, Samuel B.
1874 Schaus, William.
1874 Simpkins, N. S., Jr.
1874 Spinney, Joseph S.
1874 Salomen, Edward.
1874 Sewell, Robert.
1874 Striker, J. A.
1875 Stanford, Wm. H.
1875 Smith, Lewis Bayard.
1875 Smith, Charles Stewart.
1875 Stewart, Col. Charles S., U. S. A.
1875 Sturges, Henry C.
1875 Schultz, Carl H.
1875 Short, Prof. Charles.
1875 Stone, Charles Francis.
1875 Sheridan, Gen. Philip H., U. S. A.
1875 Sandford, Elliott. (L. F.)
1875 Stranahan, J. S. T.
1875 Schofield, Gen. John M., U. S. A.
1875 Schieffelin, H. Maunsell.
1875 Schack, Fred.
1875 Sulzbacher, William.
1875 Sherman, Isaac.
1875 Sibley, Gen. Henry H.
1875 Schiff, Jacob H.
1875 Strazburger, Oscar.
1875 Schlesinger, Alfred.
1875 Smith, Apollos.
1875 Smith, Augustine.
1876 Schem, Prof. Alexander J.
1876 Smith, Harsen H.
1876 Sibley, Gen. Hiram W., U. S. A.
1876 Spaulding, Henry F.
1876 Smith, Dwight, M. D.
1876 Stryker, Gen. Wm. S.
1876 Struve, Hans G. A.
1876 Stone, A. B.
1877 Schuyler, Philip.
1877 Shearman, William P.
1877 Sanford, Henry S.
1877 Sanger, Major Joseph P., U. S. A.
1877 Schaff, Rev. Philip, D. D.

1854 Thompson, Rev. Joseph P., D. D., (L. F.)
1855 Tellkampf, T. A., M. D.
1856 Tiffany, Charles L.
1856 Townsend, Randolph W.
1857 Taylor, Bayard.
1857 Tremain, Edwin R.
1859 Tracy, Charles.
1868 Taylor, Douglas.
1868 Tilden, Samuel J.
1870 Taylor, George.
1870 Tuckerman, Lucius.
1870 Thomson, James.
1872 Tower, Gen. Z. B., U. S. Army.
1872 Tracy, William.
1873 Townsend, Martin I.
1874 Tooley, James W.

Date of election.

1874 Thompson, David G. (L. F.)
1874 Tracy, John F.
1874 Tiemann, Peter C.
1874 Therasson, L. F.
1874 Tefft, Erastus T.
1874 Thorne, Jonathan.
1874 Tousey, Sinclair.
1874 Trevor, John B.
1874 Taylor, Alfred J.
1874 Thorne, Wm. H.
1874 Turner, Herbert B.
1874 Terry, Commodore Edward, U. S. N.
1875 Tompkins, E. H.
1875 Taintor, Charles M.
1875 Thurber, Francis B.
1875 Twining, Major W. J., U. S. Army.
1875 Terry, Gen. Alfred H., U. S. Army.
1875 Toel, William.
1875 Terbell, Henry S.
1875 Thornell, Thomas L.
1876 Tappan, J. Nelson.
1876 Trenchard, Edward.
1876 Tilden, William.
1876 Tompkins, Hamilton B.
1876 Thompson, John C.
1876 Tucker, Paul.
1876 Totten, Lieut. George Mansfield, U. S. Navy.
1876 Terry, Rev. Roderick.
1877 Thomas, T. Gaillard, M D.
1877 Tillinghast. Wm. H.
1877 Talcott, James.
1877 Tucker, Rev, Wm. J., D. D.
1877 Trowbridge, Prof. Wm. P.

1876 Uhl, Herman.
1875 Upton, Gen. Emory, U. S. Army.

1854 Viele, Gen. Egbert L.
1868 Van Vorst, Hooper C.
1868 Van Santvoord, C.
1869 Vanderpoel, Aaron J.
1870 Van Brunt, Charles H.
1874 Voorhis, Wm.
1874 Van Alen, Jas. J.
1874 Vanderbilt, Wm. H.
1874 Van Alen, Gen. J. H.
1874 Vincent, Frank, Jr.
1874 Vyse, Thomas A., Jr.
1874 Van Volkenburgh, P.
1874 Van Rensselaer, K.
1874 Vail, Henry F.
1875 Vance, Samuel B. H.
1875 Van Buren, John D., Jr.
1875 Valentine, Lawson.
1875 Von Post, H. C.
1875 Vanderpoel, A. Ernest.
1875 Verhuven, Henry F.
1875 Varick, Theodore R., M. D.
1875 Von Dorrien, S.
1876 Van Hoesen, George M.
1876 Van Brunt, Cornelius.
1877 Vanderbilt, Cornelius.
1877 Voorhees, Charles H.

Date of election.

1853 Watts, Ridley. (L. F.)
1854 Webb, Wm. H.
1854 Wetmore, Samuel. (L. F.)
1856 Warren, James K.
1856 Westermann, B.
1859 Ward, George Cabot. (L. F.)
1860 Winston, Frederick S.
1866 Wendell, Jacob.
1868 White, Alexander M.
1869 Ward, Gen. Elijah.
1869 Weber, Leonard, M. D.
1869 Wreaks, Charles F.
1870 Webster, Sidney.
1870 Wilson, Gen. Jas. Grant. (L. F.)
1870 Wright, E. Kellogg.
1870 Weston, Theodore, C. E.
1870 Ward, T. W.
1872 Wetmore. Wm. Boerum. (L. F.)
1872 Williams, Stephen C. (L. F.)
1872 Wells, Jacob.
1873 Weeks, John A.
1873 Weiner, Joseph, M. D. (L. F.)
1873 Worther, Wm. E.
1874 Webb, Gen. Alexander S.
1874 Watson, William.
1874 Weyman, Charles S.
1874 White, Lieut. Com. H. C., U. S. N.
1874 Waite, Chief Justice M. R.
1874 Wesendonck, Hugo.
1874 Wheeler, Everitt P.
1874 Wadsworth, Julius.
1874 Warren, George Henry.
1874 Wallack, J. Lester.
1874 Weber, Albert.
1874 Walker, William.
1874 Wetmore, George P. (L. F.)
1874 Wales, Salem H.
1874 Willets, Samuel.
1874 Watson, Col. B. F.
1874 Wyckoff, Jacob F.
1874 Williamson, David B.
1874 Wilder, Marshall P.
1874 Wilkeson, Samuel.

Date of election.

1874 Willard, Seymour.
1874 Worth, James L.
1874 Waite, Charles C.
1874 Walraven, Ira E.
1874 Wood, Fernando.
1874 Wooster, George H.
1875 Work, J. Henry.
1875 Wheeler, John V.
1875 Warren, Gen. G. K., U. S. A.
1875 Willard, Lieut. J. H., U. S. A.
1875 White, Charles Trumbull.
1875 Woodruff, Gen. J. C., U. S. A.
1875 Wilson, Gen. J. H.
1875 Wilcox, Franklin A.
1875 Wilkes, George.
1875 Warner, Lewis T., M. D.
1875 Windmüller, T.
1875 Windmüller, Louis.
1875 White, David, C. E.
1875 Winslow, Gen. Edward F.
1875 Williams, Gen. George B.
1875 Waller, Prof. Elwyn.
1875 Whitehead, William, U. S. A.
1875 White, Loomis L.
1875 Whipple, C. W.
1875 Wissmann, J. F.
1876 Ward, Roswell B.
1876 Walker, Evan T.
1876 Wedemeyer, A. J. D.
1876 Wrigley, Henry E.
1877 Ward, W. S.
1877 Waters, James T.
1877 Woodruff, Col. D., U. S. N.
1877 Weir, Robert F.

1871 Youngs, Henry I.
1874 Young, Mason.
1875 Yoshidi, Kiyonari.
1877 Youmans, Prof. E. L.

1874 Zachos, Prof. J. C.
1868 Zaborowski, Martin.
1875 Zollikoffer, Oscar.

# PART I.

# TRANSACTIONS

OF THE

# SOCIETY FOR THE YEAR 1877.

# FELLOWS ELECTED IN 1877.

*February* 6*th*, 1877. *Fellows Elected:*—Andrew Fiske, Le Grand Lockwood, William J. Flagg, Clarence King, Theodore Rose, Christian Börs, F. L. Crosby, Prof. Charles A. Briggs, A. T. Rice, E. B. Elliott, Cornelius Vanderbilt. *Corresponding Member*—Prof. Wm. H. Brewer, New Haven, Ct.

*March* 13*th*, 1877. *Fellows Elected:*—Philip Schuyler, John Landesman, John Lindley, Thomas L. Kane, Prof. E. L. Youmans, Richard O'Gorman, Fred. W. Nitschke, Henry M. Day, Frank H. Norton, Prof. M. J. Drennan, Edmund R. Peaslee, M. D. *Corresponding Member*—Prof. A. S. Packard, Jr., Salem, Mass.

*May* 22*d*, 1877. *Fellows Elected:*—J. A. Beall, Geo. R. Blanchard, Wm. P. Shearman, Wm. J. Morton, M. D., Augustus Gaylord, John Elderkin, L. Murray Ferris, Jr., H. F. Guleke, M. D., John M. Barbour, Robert F. Weir, Jas. B. Nicholson, Henry Shelton Sanford.

*November* 8*th*, 1877. *Fellows Elected:*—Eliphalet W. Blatchford, John H. B. Latrobe, Major Joseph P. Sanger, U. S. A., the Rev. Philip Schaff, D. D., Charles H. Voorhis, the Rev. Wendell Prime, D. D., Gen. J. B. Kiddoo, the Rev. William J. Tucker, D. D., Isaac C. Ogden, Jr., William P. Roome. *Corresponding Members*—Samuel Richard Van Campen, Esq., London, England; Señor Angel Ortiz, Sevilleé, Spain; Señor A. P. de Carvalho Borges, Minister of Brazil, at Washington, D. C.; Viscount Bom Retiro, Rio Janeiro, Brazil; Viscount Porto Seguro, Minister of Brazil, at Vienna; Señor Don T. T. M. Homem de Mello, Rio Janeiro, Brazil; Georges d'Arseniew, St. Petersburg.

*December* 17*th*. 1877. *Fellows Elected:*—Prof. William P. Trowbridge, George W. Matsell, Hon. William Dorsheimer. *Corresponding Member*—Jess Young, F. R. G. S., Wisbeach, England.

# FELLOWS DECEASED

## Years 1874, 1875, 1876, 1877.

Date of election.
1874 ANDREWS, LORING.
1874 ANTHONY, CHARLES L.
1875 ALTHOF, HERMAN, M. D.
1874 BROOKS, ELISHA.
1874 BUTTS, ISAAC.
1874 BARRON, THOMAS.
1858 BARNEY, DANFORD N.
1874 BYRD, GEO. J.
1860 BLODGETT, WM. TILDEN.
1875 BOYLE, EDWARD.
1857 BEEKMAN, JAMES W.
1871 CHARLICK, OLIVER.
1861 CARY, LUCIUS E.
1874 CLARK, LUTHER C.
1874 DELAFIELD, HENRY.
1874 DEPEYSTER, JAMES F.
1874 DWIGHT, TIMOTHY T.
1874 DICKINSON, JOHN B.
1876 DAVIS, Admiral C. H., U. S. Navy.
1876 DOWLEY, JOHN.
1876 DWIGHT, TIMOTHY T.
1875 DE LONG, CHARLES E.
1874 EAKIN, THOMAS.
1874 ENGS, PHILIP W.
1874 ELY, DAVID J.
1875 FELLOWS, LOUIS S.
1874 FITZHUGH, W. A.
1874 FOSTER, GEORGE J.
1852 FIELD, HICKSON W. (L. F.)
1874 FIELD, M. B.
1876 FINLAY, E. S., M. D.
1874 FLIESS, ROBERT A.
1874 FRANCIS, LEWIS.
1868 GARDNER, A. K., M. D.
1852 GREEN, JOHN C. (L. F.)
1874 GARNER, WM. T.
1856 GESCHEIDT, LOUIS A.
1873 GAVIT, JOHN E.
1874 GORTON, EDWIN G.
1874 GRISWOLD, JAMES C.

Date of election.
1856 HUNTER, JAMES.
1868 HEGEMAN, WM.
1869 HAYS, WM. J.
1874 HALLGARTEN, LAZARUS.
1874 HAMILTON, JEREMIAH G.
1874 HARRISON, THOMAS S.
1874 JONES, LEWIS C.
1874 JONES, JOHN Q.
1874 JUDAH, SAMUEL B. H.
1874 KELLER, CHARLES M.
1874 KITCHEN, JAMES.
1865 KING, GEORGE.
1874 KETELTAS, EUGENE.
1874 KITCHEN, WILLIAM K.
1870 KANE, J. GRENVILLE.
1854 LEFFERTS, MARSHALL.
1875 LULING, CHARLES.
1875 MOERING, H. E.
1875 MORRIS, Prof. O. W.
1874 NOURSE, ALFRED P.
1874 ONATIVIA, JOSE V.
1859 OGDEN, WILLIAM B.
1869 PRUYN, JOHN V. L., LL. D.
1874 STEELE, OLIVER R.
1869 SLEVIN, JAMES M.
1859 STEWART, ALEXANDER T.
1868 SMITH, AUGUSTUS F.
1858 STRAZNICKY, E. R., M. D.
1859 STALLKNECHT, F. S.
1875 SMITH, BENJAMIN.
1874 SIMONS, Lieut. S. W., U. S. Navy.
1874 SKIDMORE, JEREMIAH.
1859 TURNEY, P. W.
1874 WHEELWRIGHT, B. F.
1865 WELLS, SAMUEL R.
1868 WILLIAMS, B.
1874 WHITLOCK, WM. JR.
1874 WILLIAMS, JOHN S.
1870 WHITE, JOHN H.
1874 WALTER, ELLWOOD.

# ALPHABETICAL LIST

*Of Foreign and Domestic Geographical and other Scientific Bodies with which this Society is in Communicaton, and constant Exchange of Publications.*

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1. Academia Real das Sciences, Lisbon, Portugal.
2. Academy of Natural Sciences, Philadelphia, Pa.
3. Academy of Natural Sciences, Davenport, Iowa.
4. Academy of Sciences, St. Louis, Mo.
5. Academy of Natural Sciences, Minneapolis, Minn.
6. American Antiquarian Society, Worcester, Mass.
7. American Naturalist, Philadelphia, Pa.
8. American Social Science Association, Detroit, Mich.
9. Boston Society of Natural History, Boston, Mass.
10. Bureau of Education, Washington, D. C.
11. Caucasian Geographical Society, Tiflis, Russia.
12. Central Bureau of Statistics, Stockholm, Sweden.
13. Circolo Geografico Italiano, Turin, Italy.
14. Commissão Central Permanente de Geographia, Lisbon, Portugal.
15. Cornwall Library, Cornwall-on-the-Hudson, N. Y.
16. Essex Institute, Salem, Mass.
17. Establissement Géographique de Bruxelles, Belgium.
18. Ferdinandeum in Innspruck, Austria.
19. Geographical Society, Lyons, France.
20. Geographical Magazine, London.
21. Geographical Society, Hamburgh, Germany.
22. Geographical Society, Amsterdam, Holland.
23. Geographical Society, Marseilles, France.
24. Geographical Society, Munich.
25. Geographical Society, Dresden, Germany.
26. Geographical Society, Hermannstadt, Austria.
27. Geographical Society, Copenhagen, Denmark.
28. Geographical Society, Bremen. Germany.
29. Geographical Society, Madrid, Spain.
30. Geographical Society, Weimar, Germany.
31. Geographical Society, Quebec, Canada.
32. Geographical Society, Bombay, India.
33. Geological Society, Edinburgh, Scotland.
34. Geological Survey, Montreal, Canada.
35. Geographische Anstalt, Gotha, Germany.
36. Gesellschaft für Erdkunde zu Berlin, Germany.
37. Gewerbeschule, Bistritz, Austria.
38. Guido Coro, "Cosmos" Turin, Italy.
39. Historical Society, Iowa City, Iowa.
40. Hungarian Academy of Sciences, Pesth, Hungary.
41. Hydrographic Office, London.

42. Imperial Russian Geographical Society, St. Petersburg.
43. Imperial Royal Academy of Sciences, Vienna.
44. Imperial Geographical Society, Vienna.
45. Instituto Historio Geografico del Rio de la Plata, Buenos Ayres, S. A.
46. Kais. Königl. Geologische Reichsanstalt, Vienna.
47. Köngl. Gesellschaft der Wissenschaften, Göttingen, Germany.
48. König-Sächs. Gesellschaft der Wissenschaften, Liepzig, Germany.
49. L'Exploration, Paris.
50. Library of Congress, Washington, D. C.
51. Literary and Philosophical Society, Liverpool.
52. Literary and Philosophical Society, Manchester, England.
53. Melbourne Observatory, Melbourne, Australia.
54. Mexican Geographical and Statistical Society, Mexico.
55. Natural History and Philosophical Society, Belfast, Ireland.
56. Nature, London.
57. Naturforschende Gesellschaft, Emden, Germany.
58. N. Y. State Museum of Natural History, Albany.
59. N. Y. State Library, Albany.
60. New York Academy of Sciences, New York.
61. Philosophical Society, Wellington, New Zealand.
62. Polymathic Society, Vannes, France.
63. Pulkowa Observatory, Pulkowa, Russia.
64. Real Academia Espanola Arqueologica y Geografica, Madrid, Spain.
65. Revue Maritime et Coloniale, Paris.
66. Revue Géographique, 37 Rue Scheffer, Paris.
67. Revue Géographie, Paris.
68. Roumanian Geographical Society, Bucharest.
69. Royal Geological Society, Dublin, Ireland.
70. Royal Geographical Society, Rio Janeiro, Brazil.
71. Royal Society of Victoria, Melbourne, Australia.
72. Royal Danish Academy of Sciences, Copenhagen, Denmark.
73. Royal Geographical Society, London.
74. Royal Academy of Sciences, Munich, Germany.
75. Royal Society of Sciences, Upsala, Sweden.
76. Royal Prussian Statistical Bureau, Berlin.
77. Royal University, Christiania, Norway.
78. Royal Society, London.
79. Royal Cornwall Polytechnic Society, Cornwall, England.
80. Royal Academy of Sciences, Brussels, Belgium
81. Royal Institute for Philology, Geography, and Ethnography of Dutch India, The Hague, Holland.
82. Royal Dutch Meteorological Institution, Utrecht, Holland.
83. Royal Hungarian University, Pesth, Hungary.
84. Royal Asiatic Society, London.
85. Section of the Imperial Russian Geographical Society, Orenburg.
86. Smithsonian Institution, Washington, D. C.
87. Sociedade de Geographia, Lisbon, Portugal.
88. Société de Géographie, Geneva, Switzerland.
89. Société Belge de Géographie, Antwerp, Belgium.
90. Società Geografica Italiana, Rome.
91. Société de Géographie, Paris.
92. Société de Géographie, Montpellier, France.
93. Société Belge de Géographie, Brussels, Belgium.
94. Société des Sciences Naturelles, Cherbourg, France.

95. Société de Géographie Commerciale, Bordeaux, France.
96. Society of Natural Sciences, Buffalo, N. Y.
97. Statistical Society, London.
98. Statistische Amt des Duetschen Reichs, Berlin.
99. Trübner and Co., London, England.
100. The Academy, London.
101. The Asiatic Society, Yokohamo, Japan.
102. United States Coast Survey, Washington, D. C.
103. Verein für Erdkunde, Darmstadt.
104. Verein für Geographie und Naturwissenschaften, Kiel, Germany.
105. Verein von Freunden der Erdkunde, Leipzig, Germany.
106. Victoria Institute or Philosophical Society of Great Britain, London.

# PART II.

# PAPERS READ BEFORE THE SOCIETY.

NOTE.—AUTHORS ALONE ARE RESPONSIBLE FOR THE SENTIMENTS EXPRESSED IN THEIR RESPECTIVE PAPERS.